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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,316	09/26/2001	Tod S. Heiles	10019633-1	9922
75	90 05/14/2004		EXAM	INER
HEWLETT-PACKARD COMPANY Intellectual Property Administration			STEWART JR, CHARLES W	
_ P.O. Box-27240			- ART UNIT	PAPER NUMBER
Fort Collins, Co	O 80527-2400		2853	
			DATE MAILED: 05/14/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Assis a Commence	09/964,316	HEILES ET AL.					
Office Action Summary	Examiner	Art Unit					
	Charles W. Stewart, Jr.	2853					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
,							
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-52 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 26-41 is/are allowed.							
6) ☑ Claim(s) 1-9,11,14,16-20,23-25,42-46 and 51 is/are rejected							
7) Claim(s) 10,12,13,15,21,22,47-50 and 52 is/are objected to.							
8) Claim(s) are subject to restriction and/o							
Application Papers			-				
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>26 September 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119			•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stag	ı e				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2 & 3.	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:)				

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DETAILED ACTION

Specification

The specification is subject to because of the following informalities, corrections are suggested where appropriate.

Page 16, line 2, change "over" to - - beyond - - to remain consistent with the drawings.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-9, 11, 14, 16-20, 23-25, 42-46 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshihiro (JP 080 852 42 A) in view of Walker et al. (US 6,158,344).

 Yoshihiro discloses a printing device (54), comprising:
- a pen (14, 15, 16, 17) configured to transfer an imaging medium onto a print media to form a printed diagnostic image (112).
- a sensor configured to detect pen swath optical densities from the printed diagnostic image (26).
- a print media line-feed advance offset configured to be calibrated corresponding to the pen swath height error compensation factor (page 3 of 13, lines 28-30).

wherein the sensor (26) is further configured to detect pen swath optical densities from multiple sets of print swath images that form the printed diagnostic image, each set of print

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swath images having a different detectable spacing increment (page 8 of 13, lines 8-18).

wherein the pen is further configured to form the printed diagnostic image with first swath images and second swath images, and wherein the sensor is further configured to detect different pen-swath optical densities from an overlap of the first swath images and corresponding second swath images (page 7 of 8, lines 18-29).

wherein the pen is further configured to form the printed diagnostic image with first swath images and second swath images, and wherein the sensor is further configured to detect different pen swath optical densities from an alignment of the first swath images with corresponding second swath images (page 8 of 13, lines 12-18).

wherein the application component is further configured to average the pen swath optical densities and the second pen swath optical densities to determine an averaged swath height error compensation factor (abstract).

However, Yoshihiro does not specifically disclose that an application component figured to determine a pen swath height error compensation factor from the pen swath optical densities.

Nevertheless, Walker et al. disclose that an application component figured to determined a pen swath height error compensation factor from the pen swath optical densities (col. 6, lines 30-37).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Walker et al. into the invention of Yoshihiro in order to prevent the degrading of a print image.

It is the Examiner's position that Walker disclose a pen that is further configured to form the printed diagnostic image with first swath images and second swath images, the second swath

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images printed after the first swath images and after a print media line-feed advance (col. 5, lines

48-52).

Allowable Subject Matter

4. Claims 26-41 are allowed.

5. The prior art does not disclose the limitation that offsetting a print media line-feed

advance corresponding to the error compensation factor as set forth in claims 26-36. The prior

art does not disclose detecting at least a second optical density correlating to a second offset

between the first swath images and corresponding second swath images as set forth in claims 37-

41.

6. Claims 10, 12-13, 15, 21-22, 47-50 and 52 are objected to as being dependent upon a

rejected base claim, but-would be allowable if written in independent form including all of the

limitations of the base claim any intervening claims.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner

should be directed to Examiner Charles Stewart, Jr. whose telephone number is (571) 272-2154.

The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m. The fax

phone number for the organization where this application or proceeding is assigned is (703) 872-

9306.

Charles Stewart, Jr.

March 2, 2004

Stephen D. Meier

Primary Examiner